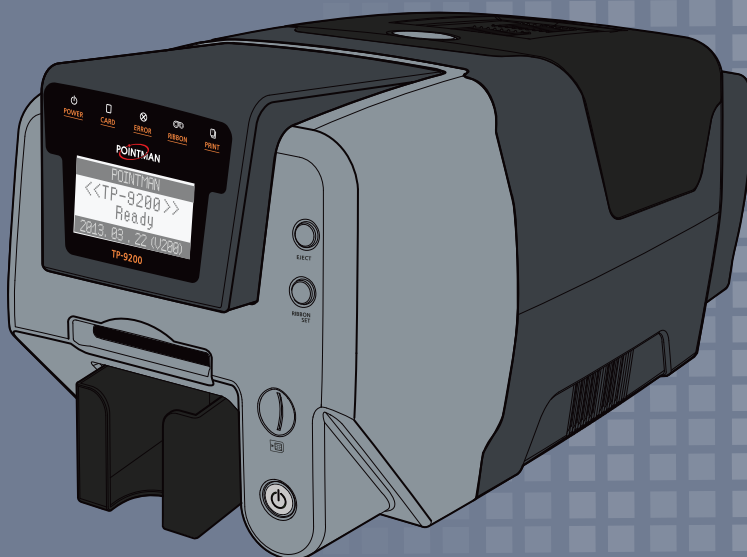




Card Printer TP-9000 / TP-9200

User Guide



Rev.4.0

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TP-9200	Auto Feed Card Printer
TP-9000	Manual Feed Card Printer

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CAUTION

User should read caution information and keep in mind before use.
Different icons remind important information as to safety. T.I.T. Eng Co., Ltd is not responsible for physical harm to body or physical damage to the product occurred by user's careless use.

DANGER

DANGER

Warns user of risk of losing life or being seriously injured.



WARNING

Warns user of risk of being seriously or slightly injured, or damage to product.



CAUTION

Warns user of slight damage to body.



NOTE

Indicates information that supplements detailed information.

The information in this user manual is subject to change without notice.

DANGER

DANGER

Warns user of risk of losing life or being seriously injured.

POWER

- Do not use damaged power cord, plug or socket.
- Do not pull plug with power cord.
- Do not touch power plug with wet bare hand.
- Do not bend power cord or put heavy things on the power cord.
- Unplug during thunder and lightning or storage

INSTALLATION

- Do not place the printer in wet, dirty place.
- Do not put lightings on the printer. Put the printer away from heat source.
- Unplug while moving the printer.
- Put the printer away from flammable source.

CLEANING

- Keep the plug dry and clean
- Unplug the printer before cleaning. Do not use water or chemical cleanser.

MISCELLANEOUS

- Take care not to spill any liquid on the printer
- In case of abnormal situation in the printer.
Unplug the printer immediately and contact your dealer.
- Make sure that you use the adequate power adaptor.



CAUTION

Warns user of slight damage to body.

INSTALLATION

- Do not put the printer on unstable place.
- Avoid direct sunlight.

MISCELLANEOUS

- Do not disassemble cover or protection parts.
- When you put hand inside the printer, do not operate it.
- Make sure that you perform cleaning and maintaining according to the instructions.
- Do not disassemble, repair, modify.
- Do not put heavy things on the printer.

CLEANING

- Do not disassemble cover or protective parts.
- Do not operate printer with your hand inside.
- Make sure that you perform cleaning and maintenance according to the instructions

1 Getting Started

1.1 Introduction

Thank you for choosing the **POINTMAN TP-9200** and **TP-9000** for your valuable card printer. Before you set up the printer, please read this user manual for your secure and enjoyable use of Pointman card printer.

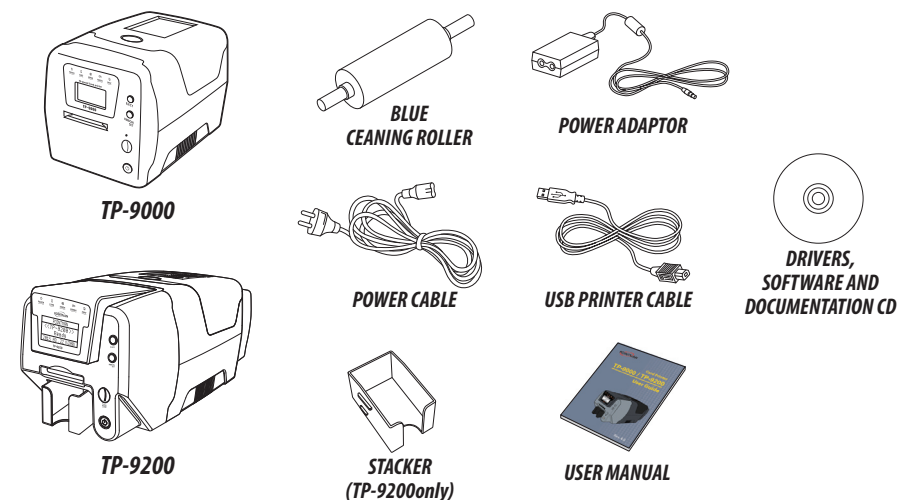
This card printer enables user to create cards easily and shortly in accordance with the card specifications you wish to get.

You can get high quality color image with the card printer of dye sublimation printing.

In order to meet customers' requirements, it provides options such as magnetic stripe, IC(Contact), RF(Contactless) encoding, automatic duplex as well as bar code, diagram, picture printing.

It is useful for creating bank cards, membership cards, loyalty cards and identification cards on PVC card.

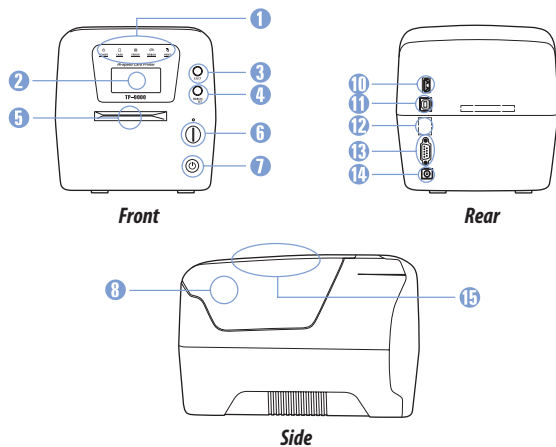
1.2 Contents in Package



*Please make sure that printer and all the accessories are in good order.
If any items are missing, please contact your dealer.*

1.3 Printer Features

TP-9000 (Manual Feeding, Single-side Printing)

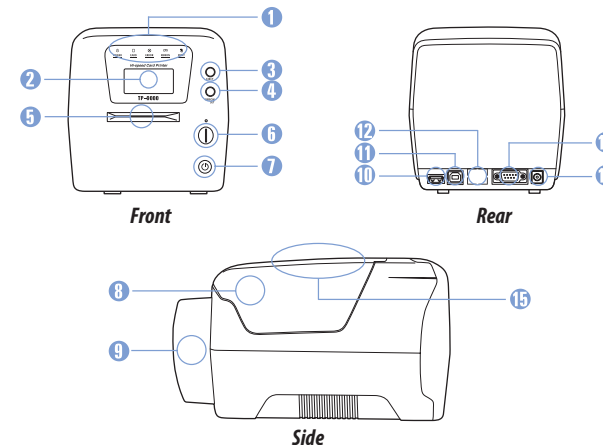


Features Description

No	Name	Description
1	LED Display	LED shows the status of printer
2	LCD Display	LCD panel displays the status of printer
3	Card Eject Button	Button for card eject from printer inside
4	Ribbon Set Button	Button for replacing or repositioning ribbon
5	Single Feed Slot	One by one manual feed and Cleaning card slot
6	Mobile Chip Slot	Mobile chip socket (Optional)
7	Power Button	Power on and off
8	Printer Lid	Open the lid to load a cleaning roller and a ribbon
9	Flipper	Automatic Dual Side Printing (Optional)
10	USB Socket	Used for memory stick HUB
11	USB Port	Used for connecting USB cable between a PC and Card Printer
12	Ethernet Port	Used for connecting USB cable between a PC and Card Printer
13	RS232C Port	Used for connecting USB cable between a PC and Card Printer
14	Power Socket	Used for supplying power
15	External RF	External RF Card Read/Write Station (Optional)

Even though we have three different models of TP-9xxx series, since there is no big difference in operating them, user manual is designed for TP-9200 Dual Sided as main reference.

TP-9000 (Manual Feeding, Dual-side Printing)

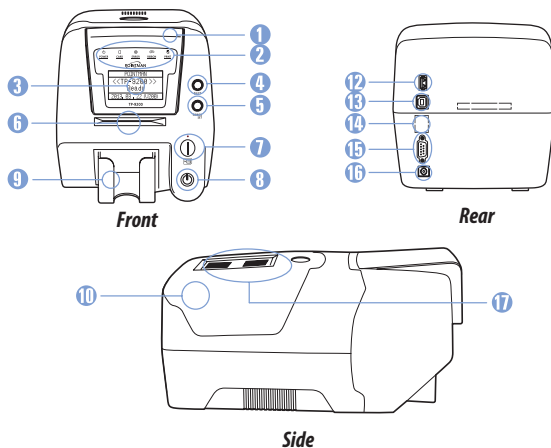


Features Description

No	Name	Description
1	LED Display	LED shows the status of printer
2	LCD Display	LCD panel displays the status of printer
3	Card Eject Button	Button for card eject from printer inside
4	Ribbon Set Button	Button for replacing or repositioning ribbon
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Even though we have three different models of TP-9xxx series, since there is no big difference in operating them, user manual is designed for TP-9200 Dual Sided as main reference.

TP-9200 (Automatic Feeding, Single-side Printing)

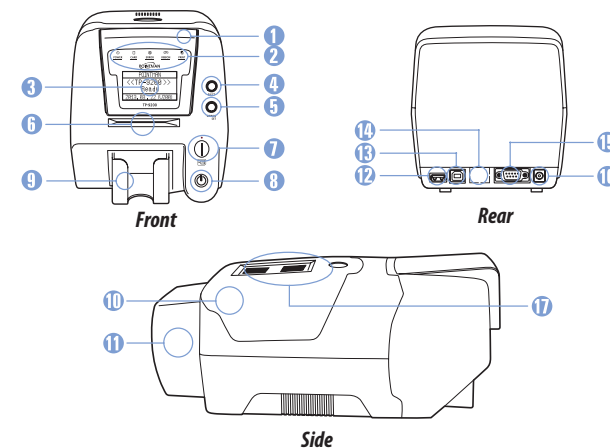


Features Description

No	Name	Description
1	Input Hopper	Loads card to print up to 100 cards
2	LED Display	LED shows the status of printer
3	LCD Display	LCD panel displays the status of printer
4	Card Eject Button	Button for card eject from printer inside
5	Ribbon Set Button	Button for replacing or repositioning ribbon
6	Single Feed Slot	One by one manual feed and Cleaning card slot
7	Mobile Chip Slot	Mobile chip socket (Optional)
8	Power Button	Power on and off
9	Output Stacker	Printed cards stacker up to 75 cards
10	Printer Lid	Open the lid to load a cleaning roller and a ribbon
11	Flipper	Automatic Dual Side Printing (Optional)
12	USB Socket	Used for memory stick HUB
13	USB Port	Used for connecting USB cable between a PC and Card Printer
14	Ethernet Port	Used for connecting USB cable between a PC and Card Printer
15	RS232C Port	Used for connecting USB cable between a PC and Card Printer
16	Power Socket	Used for supplying power
17	External RF	External RF Card Read/Write Station (Optional)

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TP-9200 (Automatic Feeding, Dual-side Printing)

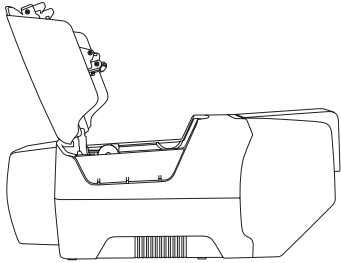


Features Description

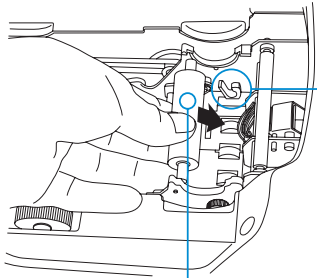
No	Name	Description
1	Input Hopper	Loads card to print up to 100 cards
2	LED Display	LED shows the status of printer
3	LCD Display	LCD panel displays the status of printer
4	Card Eject Button	Button for card eject from printer inside
5	Ribbon Set Button	Button for replacing or repositioning ribbon
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15	RS232C Port	Used for connecting USB cable between a PC and Card Printer
16	Power Socket	Used for supplying power
17	External RF	External RF Card Read/Write Station (Optional)

Even though we have three different models of TP-9xxx series, since there is no big difference in operating them, user manual is designed for TP-9200 Dual Sided as main reference.

1.4 Loading Cleaning Roller

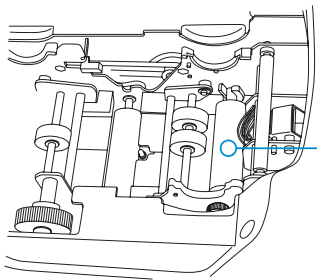


- 1 Open the printer's lid by pressing cover **"OPEN"** button and raise it fully.



U-Shaped Slot

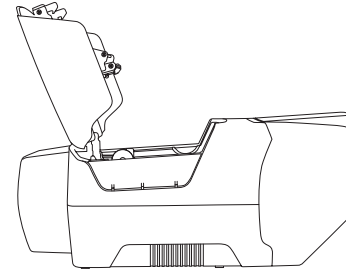
- 2 Slid the cleaning roller into the loading part and insert roller bar into **"U-shaped slots"** until it locks in place.
Blue Cleaning Roller



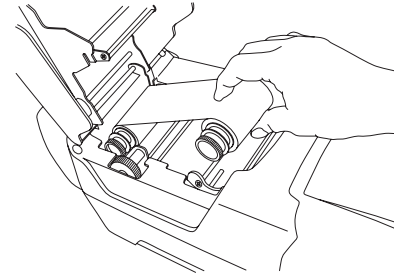
Blue Cleaning Roller

Load a new cleaning roller or wash a used cleaning roller with each roll of printer ribbon.

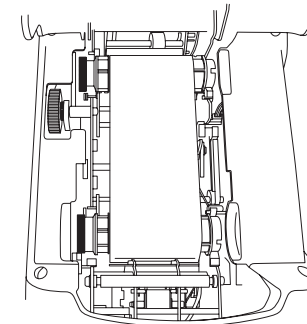
1.5 Loading Ribbon



- 1 Open the printer's lid by pressing cover **"OPEN"** button and raise it fully.



- 2 Place the supply spool into the front slots and the take-up spool into the rear slot.
Firmly close the printer lid.



Please note: Incorrect lid closure may result in poor quality print.

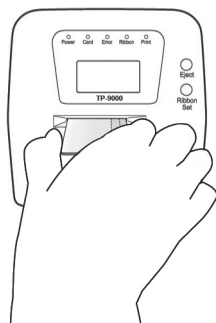
1.6 Single Card Feeding

Inserting Cards

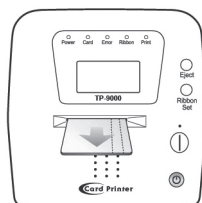
Cards are inserted one at a time into the slot at the front of the printer. The card is printed on the top surface and is ejected through the same slot.

Note: Handle the cards only by the edges

This figure shows the encoding orientation for contact smart-cards and cards with a magnetic stripe, on a TP-9000 printer.



- 1 Insert card, one at a time, into slot at front of printer. In the case of magnetic stripe card, the stripe should be on bottom and to the right.

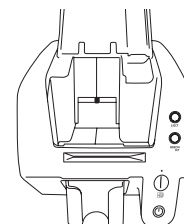


- 2 Card will be ejected through the same slot after printing.

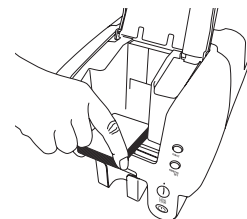
If printing is desired on the side of the magnetic-stripe, the card should be inserted with the stripe on the top surface and to the right.
For contactless smart-cards, orientation is not important.

1.7 Loading Cards

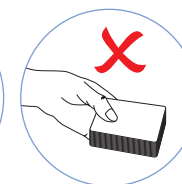
Open the card feeding lid.



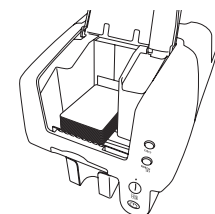
- 1 Open the card feeding lid.



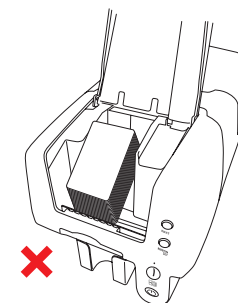
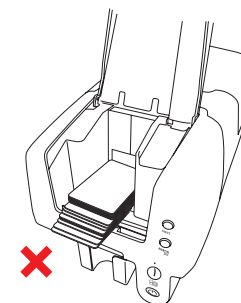
- 2 Load new cards to print at the input hopper well as shown in the picture.



- 3 Please be sure to stack cards in hopper as per pictures.



Wrong Card Stacking could be a cause of card feeding error.

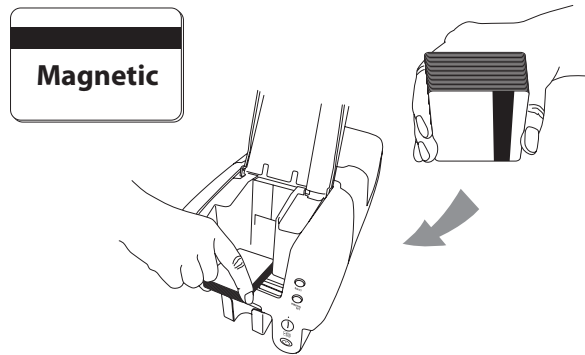


1.8 Using Magnetic Stripe Cards.

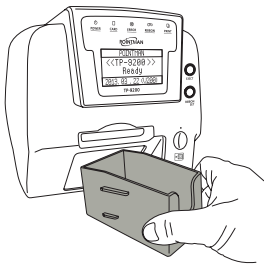
If your printer has the option of magnetic stripe encoding, you can print and encode the magnetic stripe (ISO 7811 track 1,2,3, Hi-Co/Lo-Co)

When you load magnetic stripe cards into card input hopper, please make sure the magnetic stripe should be on the bottom and to the right.

Magnetic Card Standard		: ISO 7811		
ISO 7811	Track	Track 1	Track 2	Track 3
	Recording Density	210 BPI	75 BPI	210 BPI
	Capacity	79 characters (7 bit code)	40 characters (5bit code)	107 characters (5 bit code)
	Start/End code	%/?	;/?	;/?

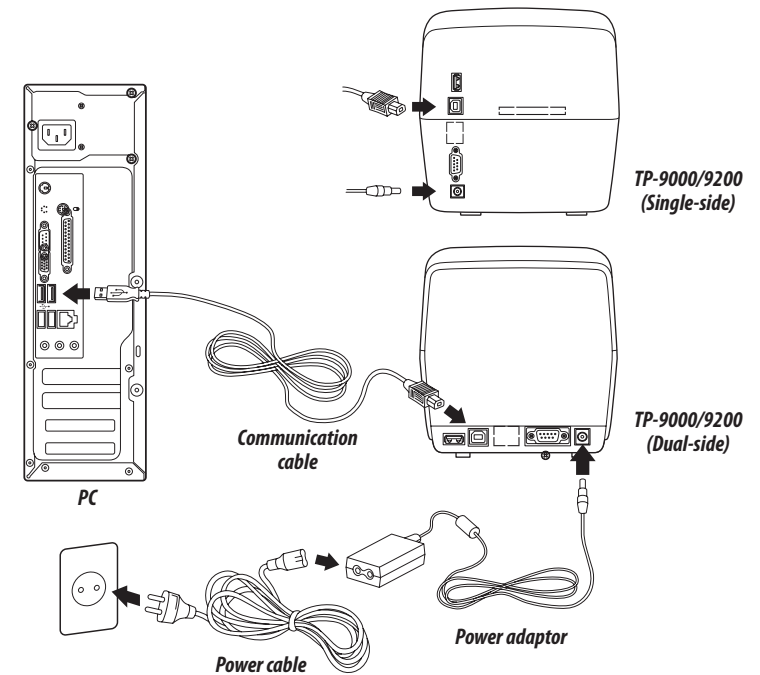


1.9 Card Output Stacker for the TP-9200



- 1 Lock the card output stacker into slots of the front side.

1.10 Power Device, Power Cable, Communication Cable



Use only USB cable provided by Pointman and PC having authentic USB 2.0.

Driver Software install

2.1 PC Systems requirement

The following operation systems are supported:

- Windows 2000
- Windows XP (32/64bit)
- Windows Vista (32/64bit)
- Windows 7 (32/64bit)
- Windows 8 (32/64bit)

Computer:

- CPU : Pentium III 1Ghz above (Pentium IV 1.5Ghz recommended)
- Memory : 128MB above (512 MB recommended)
- HDD : 1 GB above (5GB recommended)
- Internet Explorer 5.5 above (6.0 recommended)

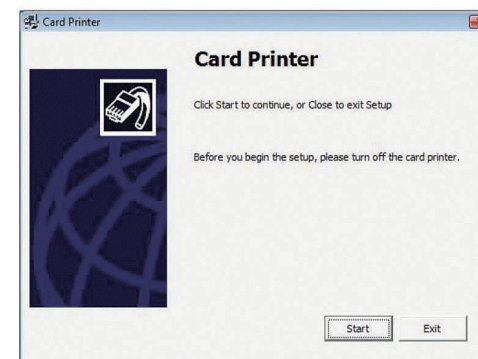
To install/remove the driver/software on Windows 2000/XP/Vista/7, 8, you must be logged in as the administrator.

2.2 Installing Driver

Close all windows in operation (Recommended)

- 1 Putting the POINTMAN Driver/Software CD into the CD-ROM Drive of the computer, the installation window will **"Open automatically or click Install .exe"**.

- 2 The initial window of Card Printer installation program like the following will automatically open.
"Click Start" to begin installation process.



- 3 Select the software you wish to install. **"Click Next"**.



NOTE:

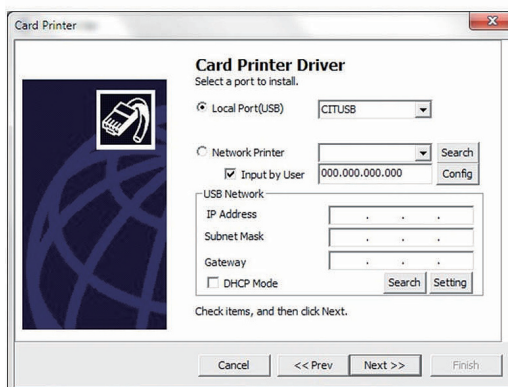
When installing the printer onto a network, connect Ethernet cable to printers Ethernet port. Select "Network Software & Card Printer Driver"

Printer Driver before clicking "Next". Switch Printer on (Ethernet install only) and when ready press Set ribbon prior to printing

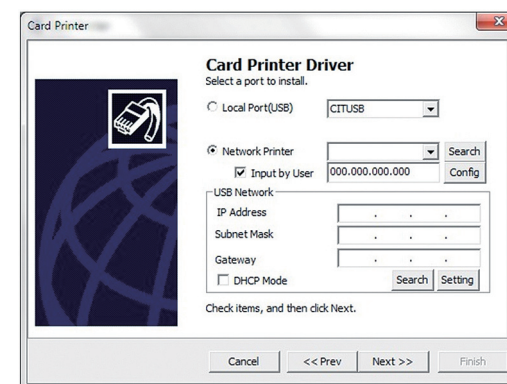
- 4 After reading license agreement for the software installation, "**Select Agree**" and then "**Click Next**".



- 5 Select the port type you wish to install. "**Click Next**".



- 6 If Network Software is selected. This window will be shown and it will display an IP address by automatically searching the Network to which the printer is connected.



- [Search] button : This searches Network Board.
- [Config] button : This configures Network architecture.
- [Input by User] : If an IP address is not searched automatically, you can create a port by inputting an IP address directly. You should use this feature in case that you can't search an IP address even though Network Setting is done.
- If an IP address on the right-hand box next to Network Printer is not searched, you may configure it by clicking Config button. Please refer to the Network Configuration Settings section.
- If an IP address is "192.168.0.31", network printer port will be address as "IP 192.168.0.31".



Caution:
If you stop the document printing, the file in printing can be mixed up with other spooled file.

7 When installation is completed, please **“Click Exit”**.



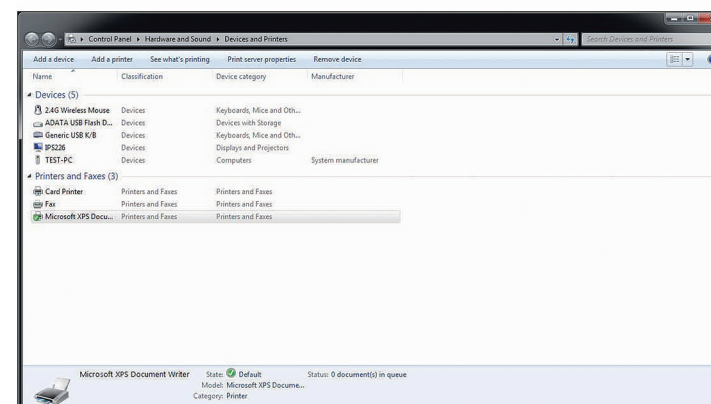
8 Check out the selected software is installed.

- (1) Check out **Card Designer Software** installation.
- Go to **“Start -> All Programs -> POINTMAN -> Card Designer”**
- (2) Check out **“Card Printer Driver”** installation
- Go to **“Start -> All Programs -> POINTMAN -> Printer”**
- Go to Card Printer in Printers folder
- (3) Check out **“Network software”** installation (Option)
- Go to **“Start -> All Programs -> POINTMAN -> Network”**

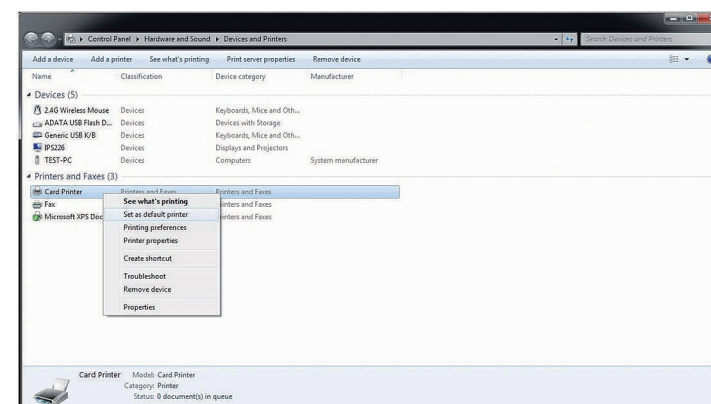
3 Printer with Card Printer

3.1 Setting up as the default printer

1 Go **“Start -> Devices and Printers”**

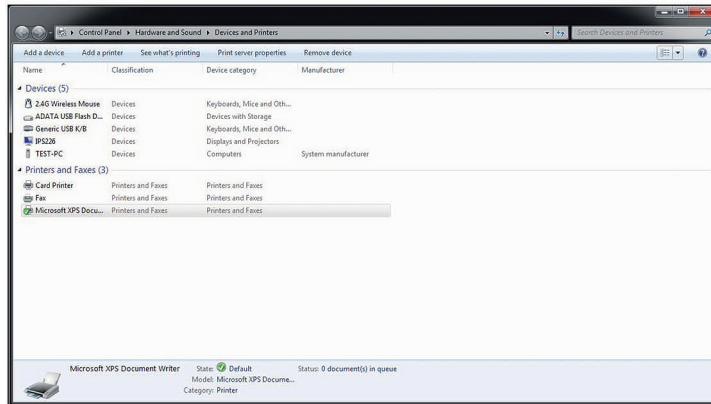


2 **“Right - Click Card Printer Driver”** and set as default printer

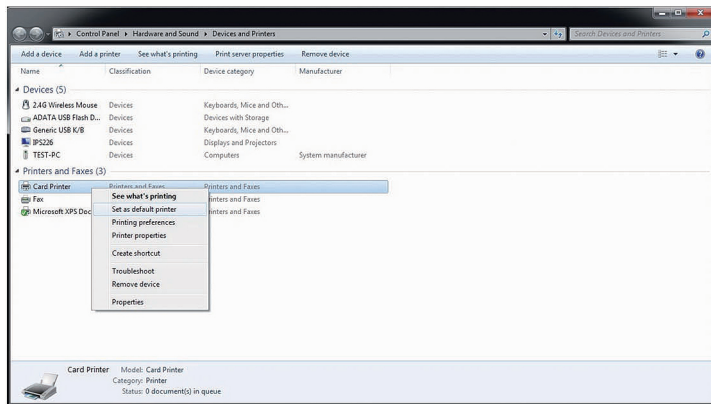


3.2 Changing the printer port (for Driver printing)

1 Go "Start -> Devices and Printers"



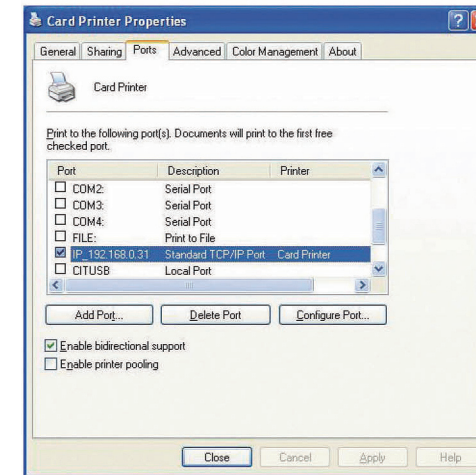
2 "Right-Click Card Printer Driver and select Printing Preferences" (or Printer Properties)



3 Select the Ports (or Detail)Tab.

4 Click the required port in order to print through either USB or Network

- Printing to Network Port : IP_192.168.0.34 (For example-Refer to Network Configuration Settings section on Page 36 and choose the port (IP address) you want to use)



If the driver is installed successfully, "Enable bidirectional support" is selected automatically. If you meet a problem when you print through the network port, please unselect "Enable bidirectional support" and proceed with printing.

3.3 Printing a Card

Open file of the Window application software you wish to print

Select the Print in the File menu.

- Make sure that you choose Card Printer .
Select the printer settings you wish to print. Click Print or OK
- Ensure that the printing image is oriented in same direction (Landscape or Portrait) as that of the card.
The preview function of the software will help you check it out.

3.4 Canceling Print

There are two ways to cancel printing

- 1) Canceling in an application software
- 2) Canceling the printing jobs at printing job window.

If a card jams whilst being printed, press the EJECT button at the front of the printer.

Please do not open the printer cover by pressing "Open" button during the operation, If the printer cover is opened during the operation the printer would be stopped automatically.

Keeping your printer operating with printer cover open, you can have the risk of injuries. If you have any trouble, Please contact your dealer or the manufacturer.

4 Printer Driver Settings

User can set up own printing environment with various functions the printer provides.

4.1 Opening in printer folder

You can modify the printer settings for all applications.

- 1 "Click Start", point to "Settings", and "Click Printers and Faxes."
- 2 "Right-Click Card Printer, select Properties" (or Printing Preferences) and make the desired modifications.
- 3 Click each tab and window will open.
- 4 Upon completing settings. "Click OK".

4.2 Opening Printing Preferences on application software

The values input in printing program will get back to previous one when current operating program terminates.

- 1 Execute printing order in application program.
- 2 "Click Printing Preferences".
- 3 Click each tab and windows will open.
- 4 Upon completing settings. "Click OK".



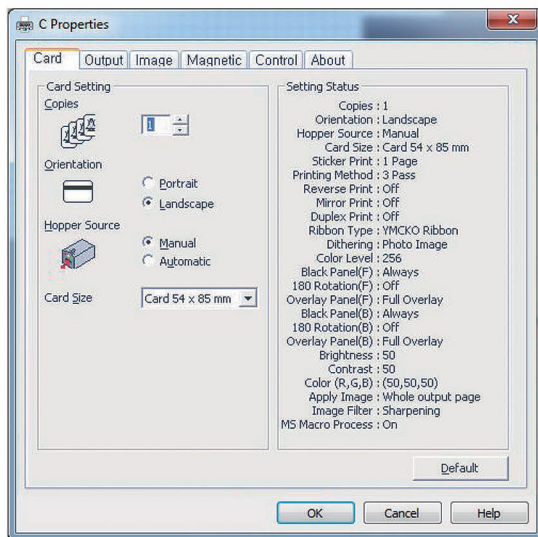
NOTE:

You can find out the detail description for the printing preference at the next page.

Card Tab

Opening Printing Preferences on Application Software

The values input in printing program revert the previous



Items Description

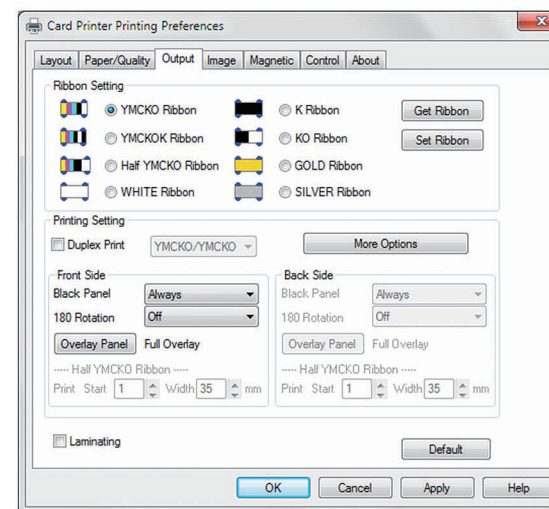
- Copies Sets the number of copies : 1 to 999.
- Orientation Sets the card orientation.
- Hopper Source Sets the source of the card supply in printer.
- Card Size Sets the size of card.



NOTE:

Please refer to card specification of page 63 if unsure.

Output Tab



Items Description

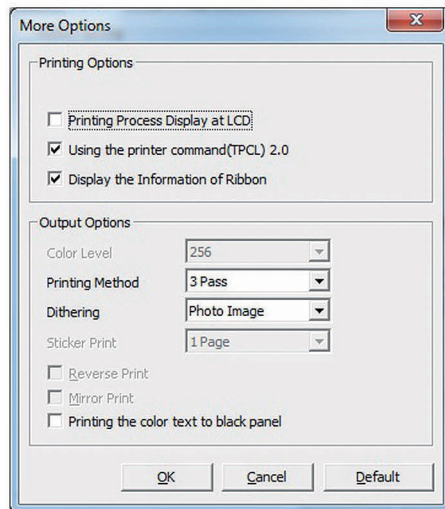
- Ribbon Type Sets the type of ribbon to be used
- Duplex Print prints the contents of a document on both sides of the card
- Black Panel, Select the K panel for printing black text and black images included in the design
- 180 Rotation will print the contents of the output data upside down on the card
- Overlay Panel option sets up the overlay panel for protecting the printed card. Options include : Full Overlay/No Overlay/Selected Area/Use Image File/Smart card ISO/Smart card AFNOR/Magnetic card



NOTE:

For all Monochrome and Black/Overlay (KO) ribbons, you will need to set the ribbon manually.

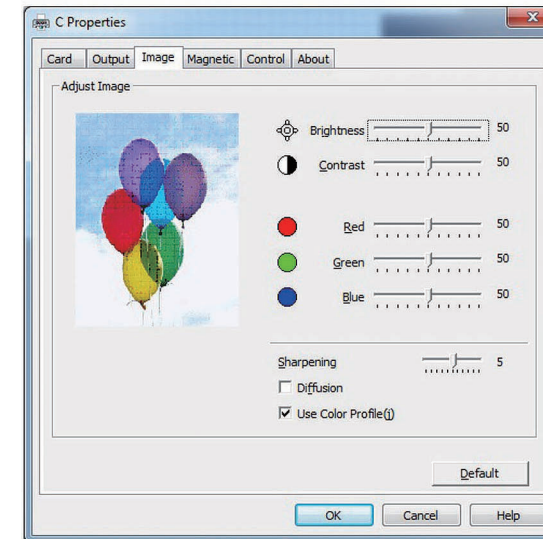
More Options



Items Description

- Using the Spooler, Sets the method of transmitting data to the printer
- Printing Process Display on LCD, Displays printing process on LCD
- Display the information of the ribbon, Displays residual counts of ribbons.
The information can be displayed if the ribbon has an RFID tag and the count is below 40
- Color Level, when printing this sets the number of colors
- Printing method, During Printing, the print mode for color ribbon movement can be set.
1 Pass, Transfer all data for YMCKO then prints
3 Pass, Transfer data for each panel then prints
- Dithering, this is applied to the data transmitted to the black panel of the ribbon (YMCKO)
- Reverse print, Reverses RGB and prints
- Mirror print, Mirrors the printing data and print.
- Printing the color text to the black panel, if color text is required in black

Image Tab

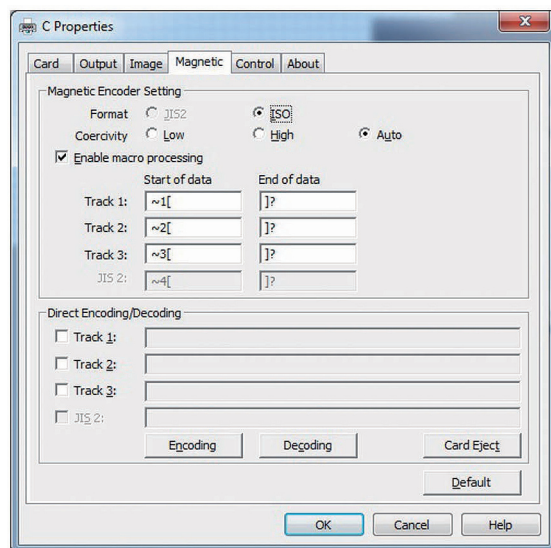


Items Description

- Brightness - Sets the whole brightness of the printed card.
- Contrast - Sets dark areas as darker and bright areas as brighter
- RGB control
The default RGB setting value is 50 and the controllable value step is 1-100
Because the actual value steps of RGB (RED/GREEN/BLUE) is 0-255,
1 step on this control section means 2-3 level
- You can see how the printing color will be changed with the control of RGB on the pictures left, balloons, but you can't see any change on the application S/W.
- Sharpening - The adjustable value steps of Sharpening is 1-10, and 1 step on this control section means 1.5 level.
- Diffusion - Mixes the pixels of an image and makes it blurred
- Use Color Profile - Sets the color adjustment

Magnetic Tab

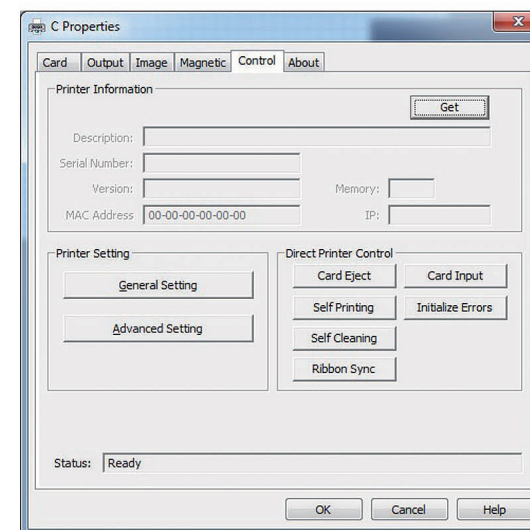
You write or read track information in the magnetic strip.



Items Description

- Format, Sets the encoder format of the magnetic stripe
- Coercivity, Sets the coercivity type of magnetic stripe
- Enable macro processing, Send data to the magnetic stripe, when this option is set it detects the start and end of the encoding data from text format and processes it with Magnetic Stripe Encoding data.
- Encoding, Writes the data of selected track to the magnetic stripe
- Decoding, Reads the data of selected track from the magnetic stripe
- Card Eject, Ejects a card when the card remains inside the printer

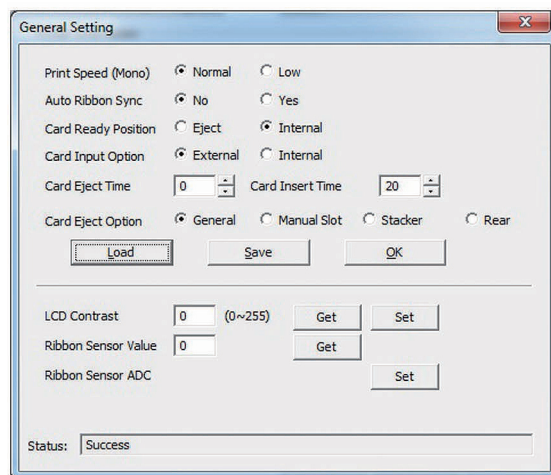
Control Tab



Items Description

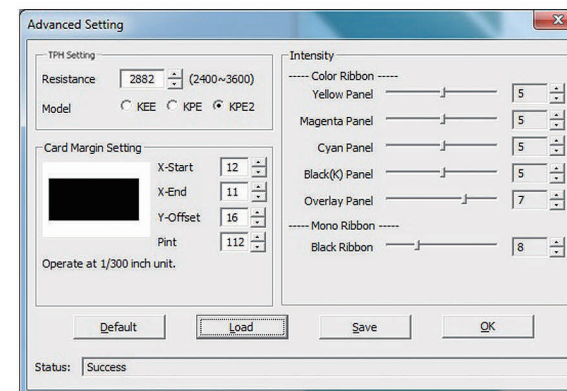
- Get, Retrieves the information from the printer and displays
- Card Eject, Ejects card from printer
- Card Input, Inserts a card that is ready at feeder
- Self-printing, Prints a self-test card
- Self-Cleaning, Initializes the clean cycle.
- Ribbon Sync, Synchronizes the ribbon.
- Initialize Errors, Removes the error state of the printer .

General Setting Tab

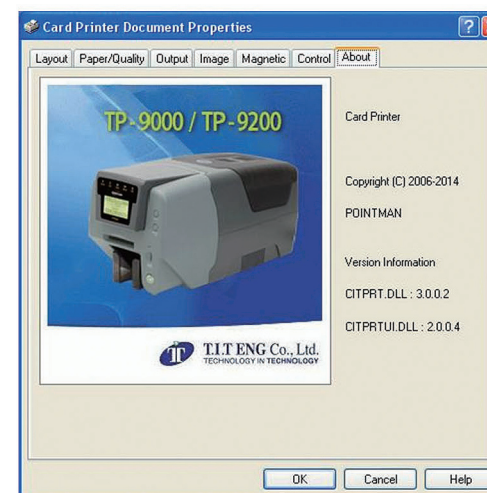


- Printing Speed - Mono
- Auto ribbon Sync - Color ribbon will be synchronized whenever lid is closed
- Card Ready Position - On initializing card can be situated inside printer or in feed hopper
- Card input option - For TP-9000 only, On initializing card can be situated inside printer or in feed slot.
- Card Eject time - For the TP-9000, Card eject time for batch printing.
- Card Insert time - For the TP-9000, Card insert time for batch printing.
- Card Ejection Option
 - 1) General : from hopper to stacker (TP-9200) form manual slot to manual slot (TP-9200 and TP-9000)
 - 2) Manual Slot : Always out to manual slot (TP-9200)
 - 3) Stacker : Always out to Stacker (TP-9200)
 - 4) Rear : Always out to Rear (TP-9200 and TP-9000)

Advanced Setting Tab



- TPH Resistance, Change the printhead resistance here
- Card Margin Setting, Offsets, default as above.
(Note : Do not adjust these settings, they are critical to the printer operation)
- Intensity, Adjusts the darkness of the printed card.

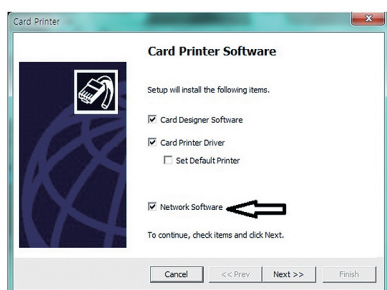


- The "About" tab shows information about the driver, If you click on the picture, Card Printer website will open via your internet browser .

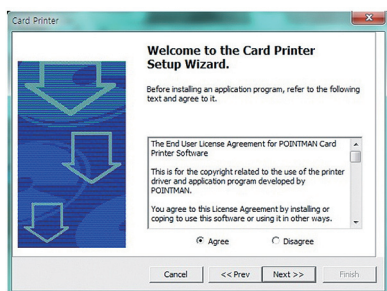
4.3 Network Configuration Setting (Option)

How to install a printer on a Network

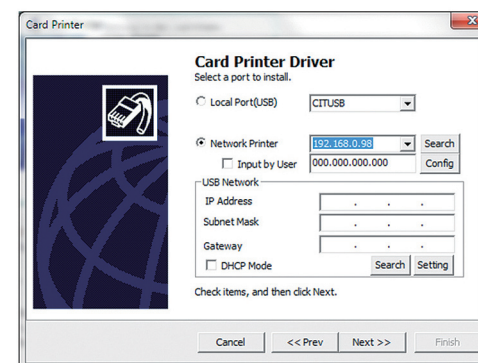
- 1 Install Network driver **"automatically or by manually clicking Install.exe"** file.
- 2 **"Tick Card Printer Driver box"**
- 3 **"Tick Network Software"** box then **"Click Next"** button.



- 4 **"Click the Agree option then click the Next button"**.

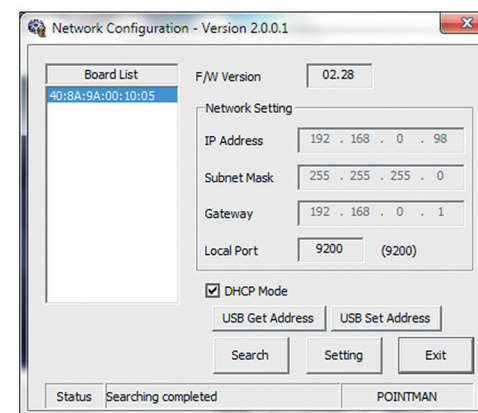


- 5 If you get a Windows Security Warning Message pop-up, **"Click Allow Access"** button.
- 6 **"Click Network Printer"**.

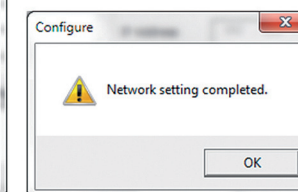


- 6-1 If the printer is connected to your network and you are using DHCP mode, the IP address will automatically appear in the drop down box. If the IP address is correct, **"Click the Next"** button.
- 6-2 If IP address is not shown in the drop down box, tick input by user and then click Config button. The Configuration window will pop up and you can select the right MAC address on the board list on the left side. You can also check the information for the Network Setting, which is automatically assigned from your DHCP server. If the information is correct, please **"Click the Setting"** button at the bottom. If the setting is ok, the printer will **"Re-boot automatically and Network setting complete"** will pop up.

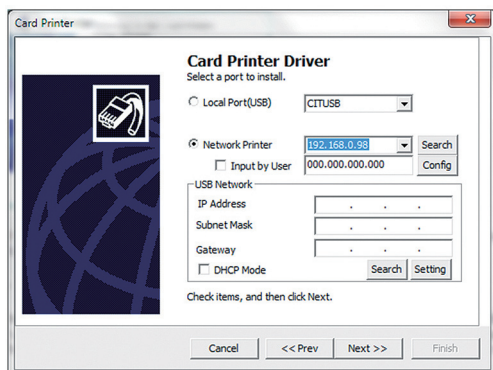
If the addresses are not correct, you can edit and then click setting to save.



<Network Configuration Window>



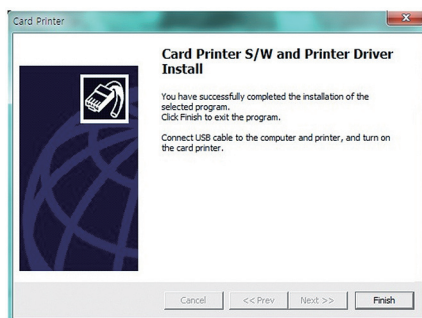
- 6-3 If you want to connect to the Network using USB, manually input the IP address, Subnet Mask, and Gateway and set DHCP mode.



- 7 Card Printer S/W and Printer Driver Install window.



- 8 Please "Click Finish" for the completion of the Printer Driver Install.



Network Configuration (Configure.exe)

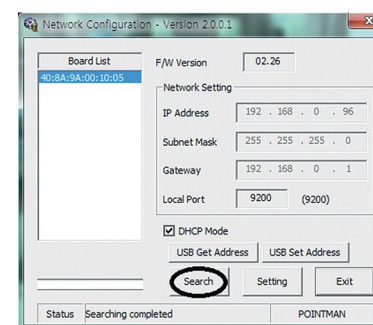
If you want to set up the Network after printer installation, set up with Network Configuration.

- 1 Go to "Start -> All Programs -> POINTMAN -> Network -> Network Setting"

Network Setting-Auto Setting (DHCP supported)

Info) TP-9200, 9100 and 9000 - Any networks that have a TCP/IP network connection, can be configured in DHCP mode and the IP Address will be supplied by the network.

- 1 Search the connected Network Board by "Clicking Search".



Items Description

Board List – lists the searched network printers

F/W Version – show F/W version of the selected network board

IP Address – shows IP address of the selected network board

Gateway – shows gateway address of the selected network board

Local Port – sets a printing port through network printer. Please select 9200

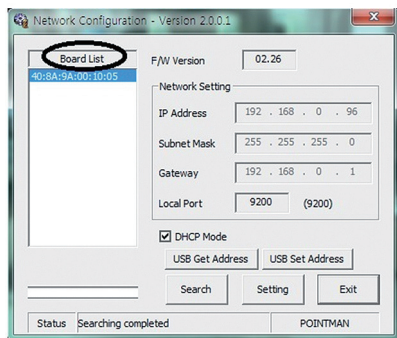
DHCP Mode : If the network system supports DHCP, IP is automatically set. If not, you should directly change address after being assigned. And then you set it in order to use network printer.

Search Button : Search network of a card printer

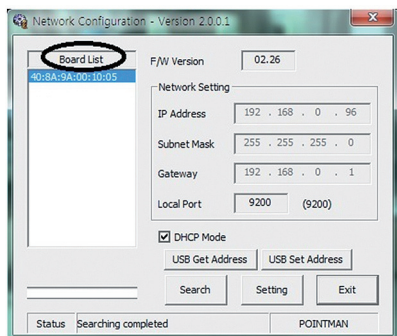
Setting Button : Save the changed network information. After changed, the card printer will be reset. You can use after 10 seconds.

Exit Button : Exit the program

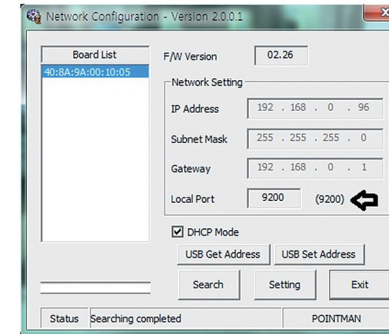
2 Select MAC address on "Board List".



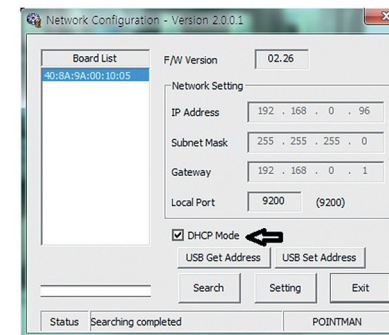
3 IP Address, Subnet Mask and Gateway are automatically assigned from DHCP server. However, you may input Subnet Mask and Gateway if you need to change them.



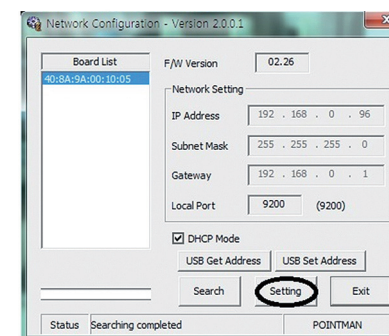
4 Set Local Port for 9200 (This cannot be changed)



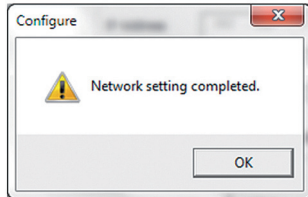
5 "Select DHCP". (Please check DHCP box is checked)



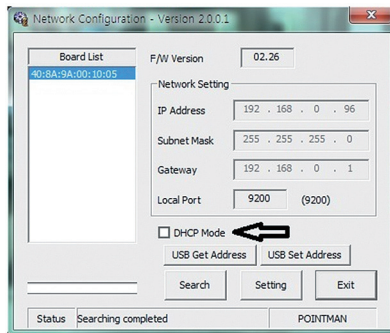
6 "Click Setting" button, It takes approximately 30 seconds for this setting. If it is done setting, please reboot the printer in order to get a new IP address from the server.



- 7 Network setting completed window will appear, if setting is completed **“Click OK”**.



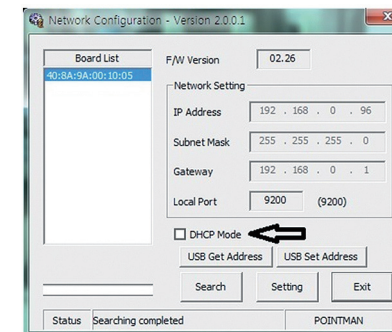
- 8 **“Click Exit”** to finish network setting or user can check the new setting by **“Clicking the Search”** button.



Network Setting–Manual Setting

IP Address, Subnet Mask and Gateway should be assigned by Network administrator.

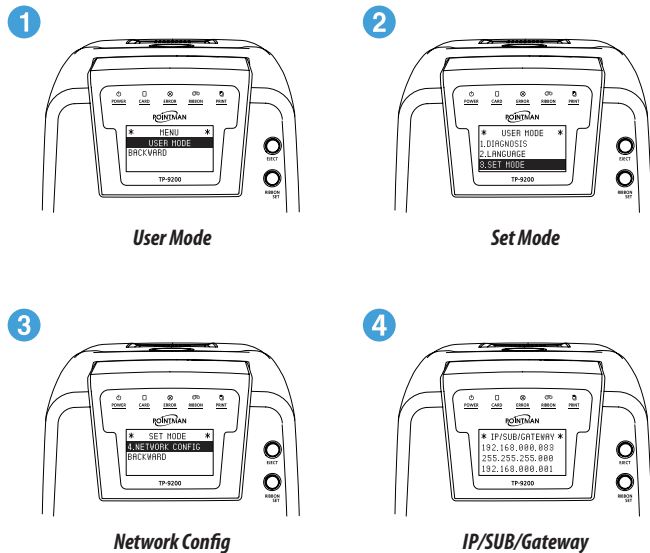
- 1 Search the connected Network Board by clicking **“Search”**
- 2 Select MAC address on Board List.
- 3 Input IP Address and Subnet Mask assigned by Network administrator.
- 4 Set Local Port for 9200 (this cannot be changed)
- 5 DHCP Mode box should not be checked. User should un-select this option when using manual setting.



- 6 Click Setting button, It takes approximately 30 seconds for this setting. If it is set, the printer will re-boot automatically. **“Click Exit”** to finish network setting or user can check the new setting by **“Clicking the Search”** button.

Self-Check IP Address

- 1 Turn Power on the Printer
- 2 "Push the EJECT and RIBBON SET button together" at the same time until the LCD displays "User Mode". Please "Push RIBBON SET button" till the user mode menu comes up then "Push RIBBON SET button longer on 4. NETWORK CONFIG" to check IP Address.
- 3 "Push the EJECT button and RIBBON SET button together" when checking IP Address is done. LCD display would be backward.



5 Printer Operation

5.1 Printing a Card

Printing with the TP-9XXX printer is similar with any other printer in windows environment.

The printer driver software is installed on your computer (see **Page 18~22**)

The printer is connected to the power source and the computer (see **Page 17**)

The printer is selected by either the operating system or the appropriate application software program.

Printer properties are set (the factory default values will be appropriate for many applications).

Card printing is directed by the appropriate application software program

5.2 Setting printer properties

Printer properties can be set either at the operating system level or within the application software program used for printing cards.

Note : In the following description of setting printer properties, only those properties and options that are suitable for being set by the user are described. The user should not make selections or set parameters unless they are specifically described in this section.

Preference settings can configure the printer for landscape (wide) or portrait (tall) printing orientation, and allow the user to verify that the desired ribbon is installed in the printer.

Ribbon is selected via the output tab.

If the printer includes the optional magnetic card stripe encoder, encoding parameters and coercivity can be set.

5.3 Printing a sample Card

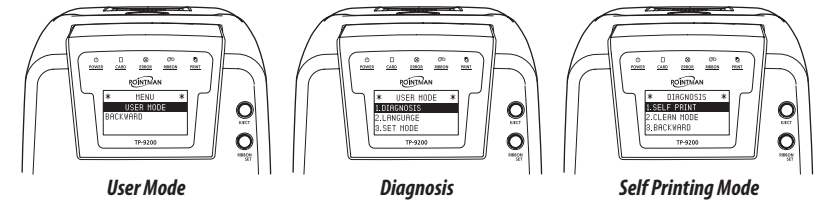
Sample card designs are installed with the printer driver. Sample cards require Microsoft Word or Microsoft Paint application software. The cards are accessed via the start menu.

First set the CARD PRINTER TP-9XXX as the default printer and then follow these steps to design and print your first card:

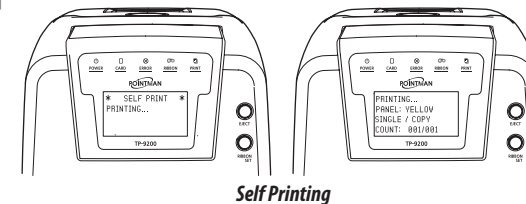
- 1 Launch Microsoft Word, Depending on your computer configuration this may be done by Double-clicking the windows start icon, selecting programs, and navigating to Microsoft Word.
- 2 Go to the file menu and choose page setup.
- 3 Select the paper size tab, choose card, under orientation, select landscape
- 4 Select the margins tab, and set the top, bottom, left, and right margins to 0 (Zero)
- 5 Click OK to close the page setup window
- 6 The card appears on the screen
- 7 Design a card with both and colored text and with colored pictures.
- 8 Once you are ready to print, go to the file menu and select print
- 9 The printer will feed in a card and start printing (the data download time will vary depending on the complexity of the card design and the processing speed of your computer)
- 10 Once the printing job is complete, the card is ejected from the printer.

5.4 Printing a self-test card

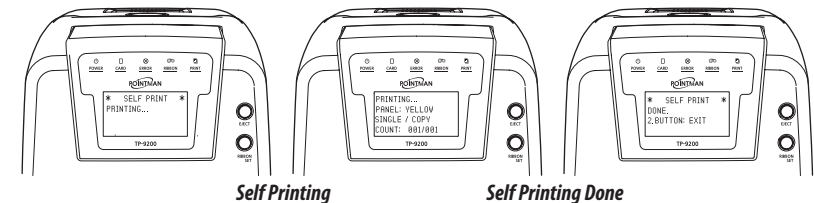
- 1 Power on the printer (No PC connection necessary) Make sure a ribbon is loaded and a card is in the hopper or ready in single feed slot.
- 2 "Push the EJECT and RIBBON SET button together" at the same time until the LCD displays "User Mode"
- 3 Please "Push RIBBON SET" button till the user mode menu comes up then "Push RIBBON SET button longer on 1. DIAGNOSIS" to go into Self Print menu. If you want to select different part, please push RIBBON SET button shorter.



- 4 "Push RIBBON SET" button when "Self-Printing menu is selected".



- 5 A self-printing card is then printed; see below for samples of YMCKO and Mono ribbon Self-Printing cards. "Self-Printing done" will be displayed at LCD.



- 6 "Push the EJECT button and RIBBON SET button together" when Self-Printing is done. LCD display would be backward.

5.5 Printing via a PC Connection

- 1 Connect the USB to the PC and power on the printer. Ensure ribbon and cards are installed
- 2 Go to the "Driver and Printing preferences -> Control tab -> Direct printer control -> Click Self-printing"
- 3 Printer will display Self Printing. The printed test card will print and eject

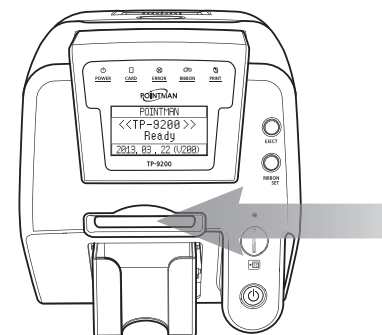
5.6 Printing One Card at a Time



NOTE:

The card feeder must be empty for printing single card using TP-9200 printer.

- 1 Insert a card into the single card entry slot



Single Card Feeding Slot

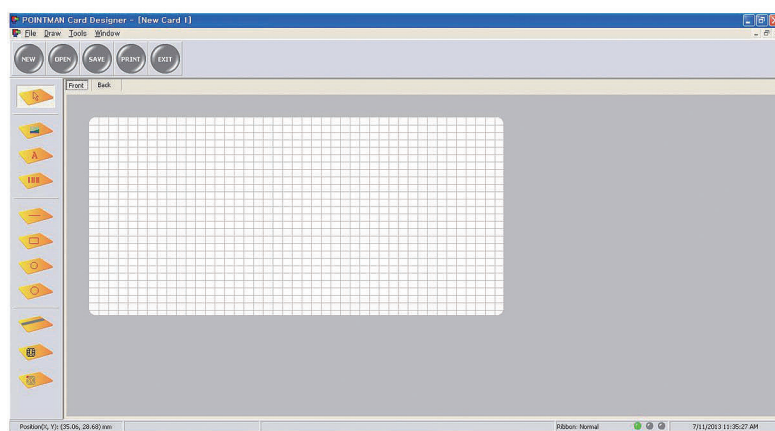
- 2 Go to your ID card software package and print a card
- 3 Wait until the printer has printed the card

6 Software Operations

6.1 Getting Started

Card Designer is software that allows user to design and issue cards. Follow the steps below to create cards.

Go to **"Start -> All Programs -> POINTMAN -> Card Designer-> Card Designer"**



6.2 Description on Features

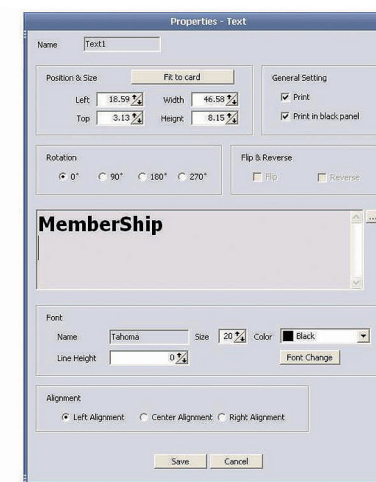
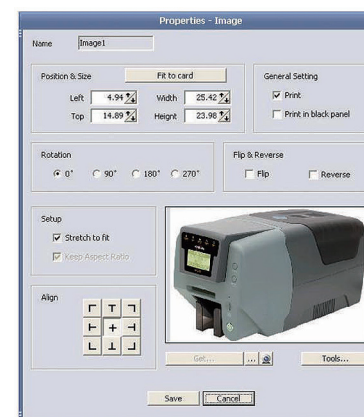
- NEW : Design new card. Up to 10 windows can be created at the same time.
- OPEN : Read a saved card design.
- SAVE : Save a card design.
- ISSUE : Print a card.
- EXIT : Terminate the window.

6.3 Designing Card

CardDesigner is software that allows user to design and issue cards. Follow the steps below to create cards.

IMAGE designing

- 1) Select  icon to start image designing in Card Designer.
- 2) Drag mouse on the range where image is positioned on card.
- 3) When window of **"Properties-Image"** opens. Click **"Select Image"** button or **"Cam"** button. Select image you wish to insert.
- 4) Click **"Save"**, then the selected image is inserted.
- 5) You can change properties of the inserted image.



TEXT designing

- 1) Select  icon to start TEXT designing in Card Designer.
- 2) Drag mouse on the range where TEXT is positioned on card.
- 3) When window of **"Properties-TEXT"** opens, insert **"Code"** you wish to insert.
- 4) Click **"Save"**, then the TEXT is inserted.
- 5) If you wish to change properties of the inserted text. double click on the TEXT.

BARCODE designing

- 1) Select  icon to start bar code designing in Card Designer.
- 2) Drag mouse on the range where barcode is positioned on card.
- 3) When window of **"Properties-barcode"** opens. insert **"Code"** you wish to insert.
- 4) Click **"Save"**, then the bar code is inserted.
- 5) If you wish to change properties of the inserted text. double click on the bar code.

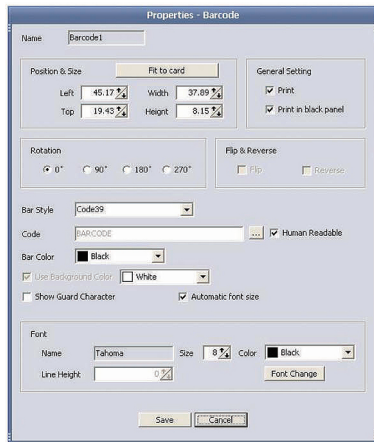
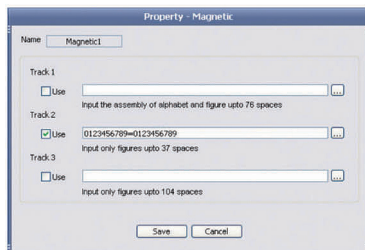


DIAGRAM designing

- 1) Select  icon to start diagram designing in Card Designer.
- 2) You can draw Diagram; Circle. Rectangle. Oval.
- 3) If you wish to change properties of the diagram. double click on the diagram.

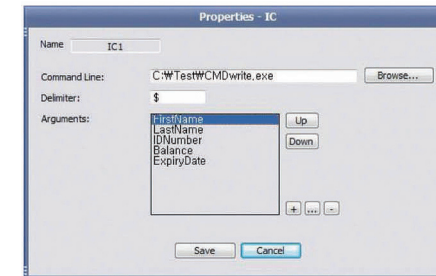
MAGNETIC designing

- 1) Select  icon to start diagram designing in Card Designer.
- 2) Magnetic stripe is displayed within the range of card.
- 3) If you wish to input data into magnetic stripe, double click the magnetic stripe and input data in the relevant track.

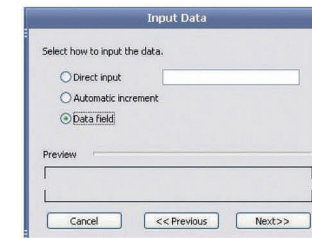


IC Card

- 1) Select  icon to start diagram designing in Card Designer.
- 2) IC chip is displayed within the range of card. Set each item you want to write in the IC properties.



- 3) Select the IC encoding program file which will be used for IC encoding by clicking [Browse...] button.
- 4) Input Delimiter for each Argument at Delimiter box. (1 byte).
- 5) You can add or delete the arguments with "+" and "-" button.
 - You can add the arguments with ([+]) button or change the property of the argument with ([...]) button
 - You can delete the arguments with ([-]) button.

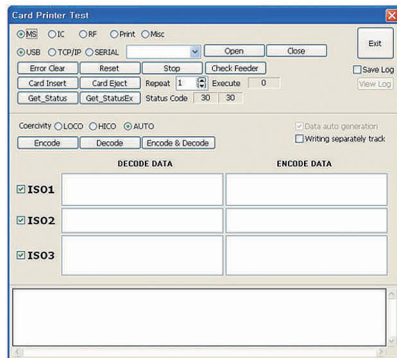


- 6) When you print and encode a IC chip with calling the IC encoding program on Card Designer. the arguments will be sent in the format as the example below.

[Calling example] C:\Test\CMDWrite.exe FirstName\$LastName\$1DNumber \$Balance\$ExpiryDate

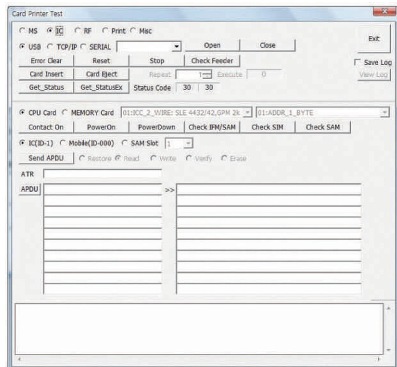
6.4 Tools

MAGNETIC CARD



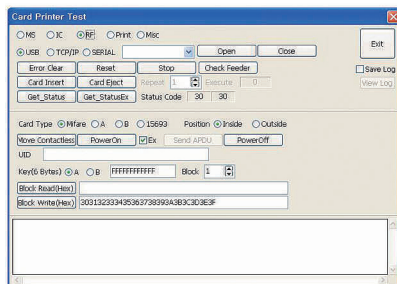
After input of data to be written on magnetic track. **“Click Write”**.

IC CARD



“Select IC” and **“Click Read”** button. Progress bar will show communication status with IC chip.

RF Card

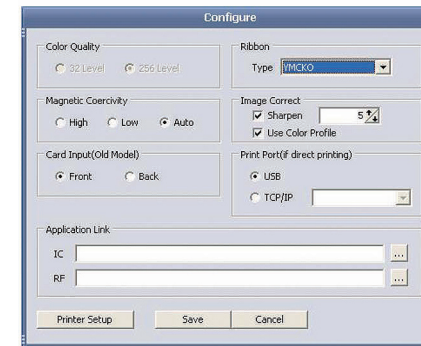


“Click Card Read”. The progress will show communication status with RF card.

6.5 Configuration

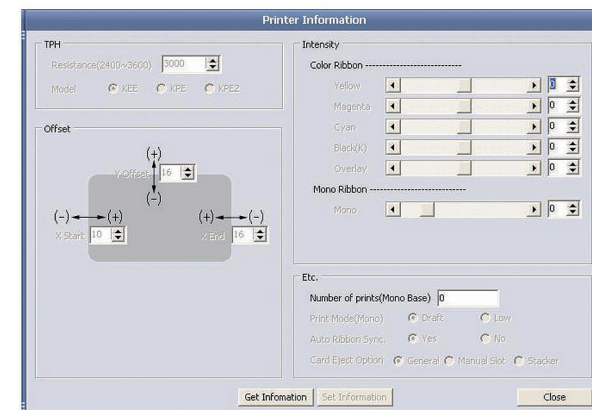
Configure

When issuing card, user can set the type of ribbons, the card orientation and dithering for black ribbon. When issuing IC card or RF card, user can set the external program necessary.



Printer Information

You can change set-up of a printer at configure by clicking Printer Setup.

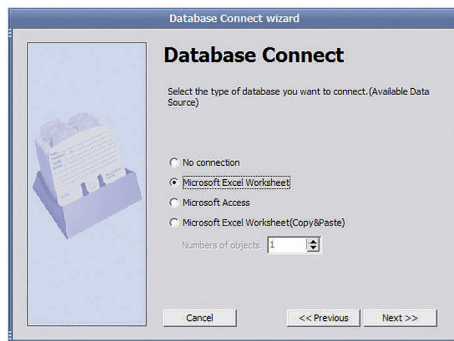


6.6 Data Synchronizing

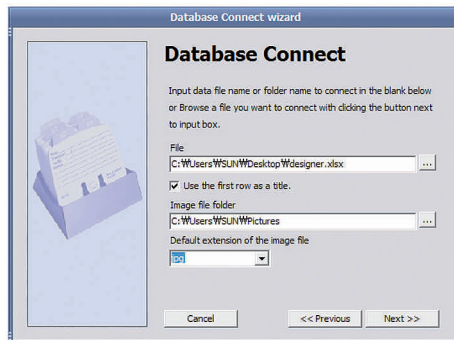
Data Synchronizing will help user to synchronize data created in Microsoft Excel or Microsoft Access with what will be used in card issuing software for card creation. User can make card effectively in shorter time.

Data Connect Wizard

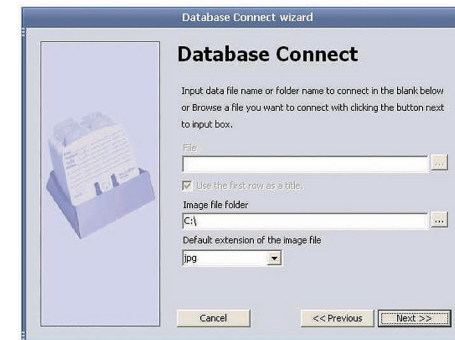
1 Card Designer "Tool -> Data Connect -> Data Connect wizard"



2 Select target database to synchronize.
(Select Excel Worksheet if target DB is in Excel Copy & Paste method.)
If you select "Microsoft Excel worksheet (Copy & Paste)", you should input the numbers of column you will use.



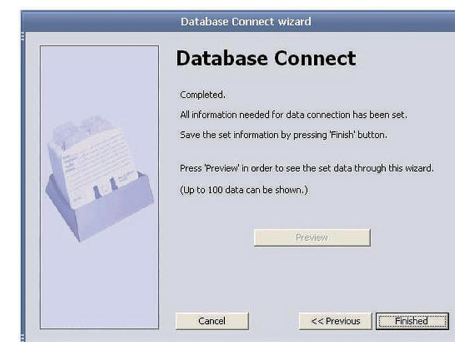
3 Please select the Database file or/and Image file folder being used for database connection. The searching window will be executed with clicking "..." button.



NOTE:

When you set the image file folder for database connection, all image files in the folder should have the same format. The file in different format would not be printed.

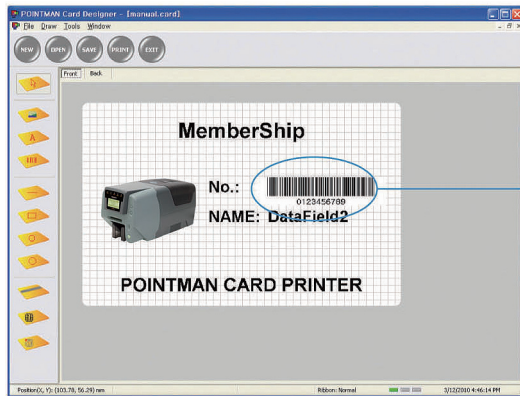
4 Choose Sheet to be used in database.



Completing Synchronizing

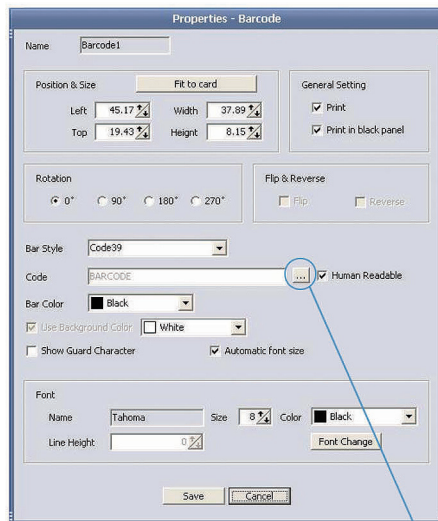
Synchronizing data on the card with database (ex.staff number)

- 1 Double click Barcode on database to synchronize.

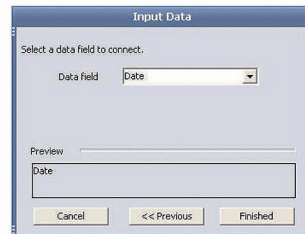
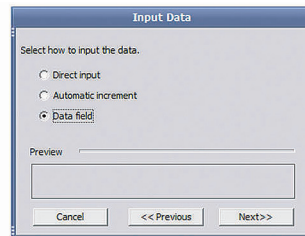


Article for DataField 1:
Double Click

- 2 "Click Data Field Connection" button(...). "Data field" for data input.
"Select Staff number" for data field. "Click +" to add data for staff number.
"Click Finish".

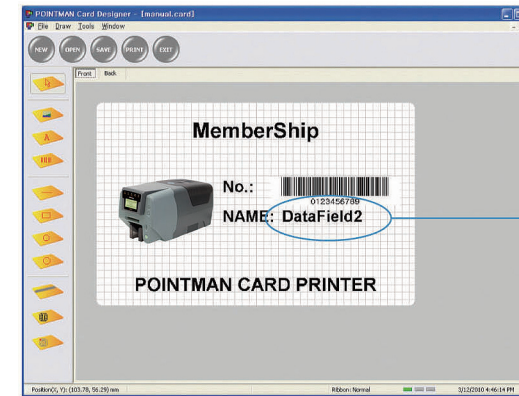


Data Filed Connection Button



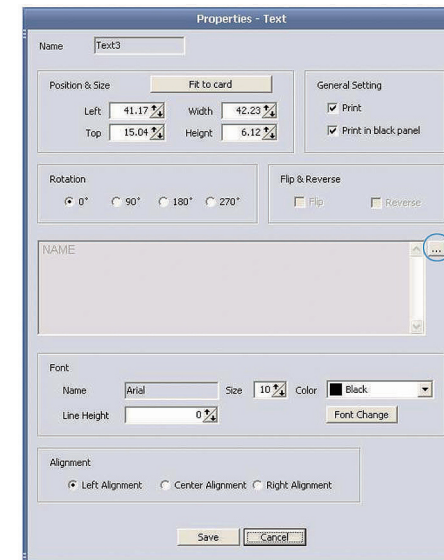
Synchronizing data on the card with database (ex.staff name)

- 1 Double click Name on database to synchronize.



Article for DataField 2:
Double Click

- 2 "Click Data Field Connection" button(...).
"Select Data field" for data input.

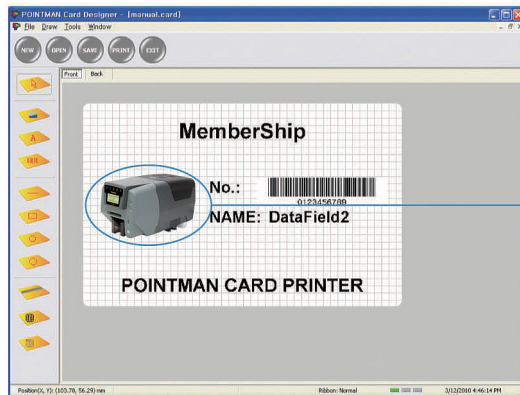


"Select Staff Name" for data field.
"Click +" to add data for staff number. "Click Finish".
And "Click Save".

Data Filed Connection Button

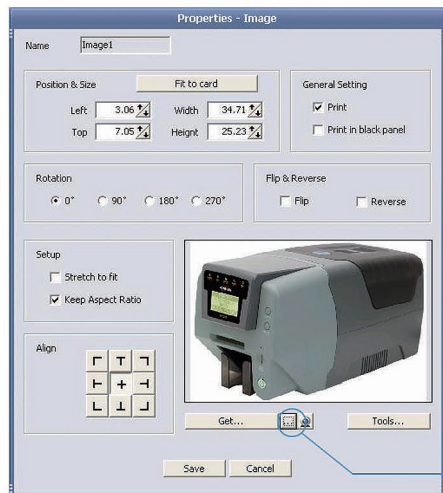
Synchronizing data on the card with database (ex.staff picture)

- 1 Double click Picture on database to synchronize.



Article for DataField 3:
Double Click

- 2 "Click Data Field Connection" button(...). "Select Data Field" for data input. "Select Staff Picture" for data field. "Click +" to add data for staff number. "Click Finish". And "Click Save".

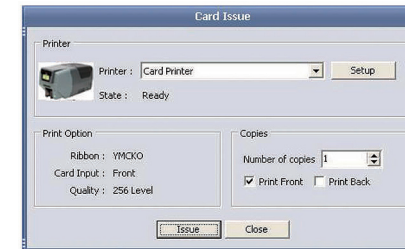


Data Filed Connection Button

6.7 Card Printing

Card/Issue (Normal)

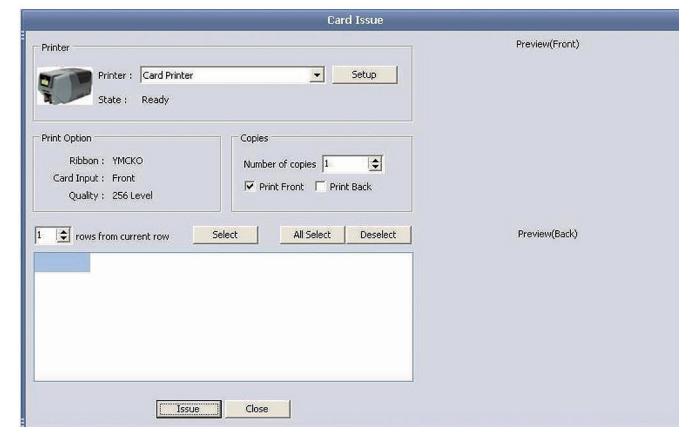
- 1 If you "Click Issue" on Card Designer, window below will open.



- 2 Select the type of printer (Driver or Direct).
- 3 Make a print with "Issue" button after finishing the setup of ribbon and other details

Card/Issue(Data Field Connection)

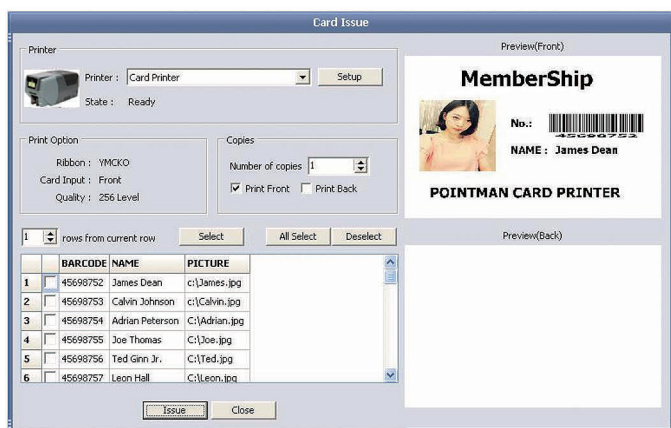
- 1 If you "Click Issue" on Card Designer, window below will open.



2 Execute Microsoft excel -> Select the data area and copy them.

	A	B	C	D	E
1	BARCODE	NAME	PICTURE		
2	45698752	James Dean	C:\James.jpg		
3	45698753	Calvin Johnson	C:\Calvin.jpg		
4	45698754	Adrian Peterson	C:\Adrian.jpg		
5	45698755	Joe Thomas	C:\Joe.jpg		
6	45698756	Ted Ginn Jr.	C:\Ted.jpg		
7	45698757	Leon Hall	C:\Leon.jpg		
8	45698758	Jake Long	C:\Jake.jpg		
9	45698759	Justin Blalock	C:\Justin.jpg		
10	45698760	Glenn Dorsey	C:\Glenn.jpg		
11	45698761	Alan Branch	C:\Alan.jpg		
12					
13					
14					
15					
16					
17					
18					
19					

3 When you use Microsoft Excel worksheet (Copy&Paste) mode. **“Click Paste button or click the marked area”** with mouse right button and click Paste at pop-up menu. then data will show up.



4 Check at the left of data which you will print and **“Click issue”** to make a print.

7 Instructions on Maintenance

7.1 Maintenance of Product

Choosing the right Cards

Card Size

- Standard (ISO CR80-ISO 7810)
= 53.98mm W × 85.60 mm L | 3.375" × 2.125"

Card Thickness

- Minimum - 0.40mm.
- Standard - 0.76mm
- Maximum - 1.2mm

Card should be:

- Glossy white.
- Free from the dirt and grease.
- Free from surface contamination.
- Free from pits and bumps in the surface
- Free from burrs at the edge of the card
- Completely Flat

Card should not be

- Heavy damaged card
- Card with heavy dirt
- Card with scratch
- Bended or deformed card

7.2 How to Clean the printer

*Dirt or embedded contamination on rollers may cause printer problems.
Follow the recommended maintenance procedures below.*

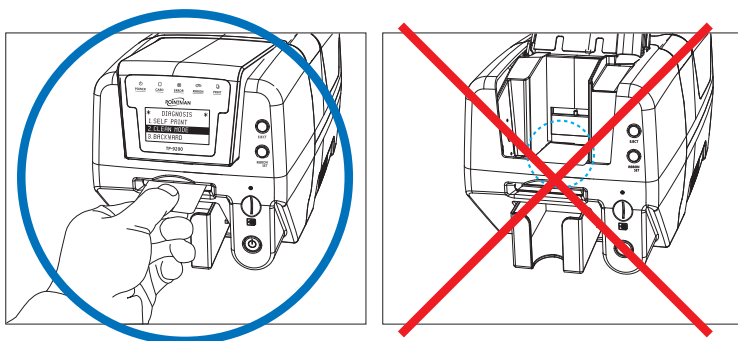
Cleaning the Inside Transport Rollers Using the Cleaning Card

Intermediate clean when changing the ribbon (1,000 pass) or each month, whichever occurs first.

CR-80 Cleaning Card or Long T-shaped Card

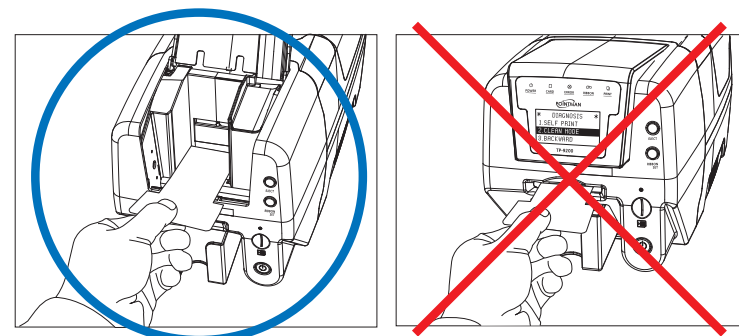
You can clean the inside of your card printer with using CR-80 Cleaning Card.
You can clean the all rollers of your printer including feeder roller with long T-shaped Card.
Please attention to (check carefully) below pictures on how to insert cleaning card.

How to insert a CR-80 Card: Using the single card feeding slot



Caution : No auto card feeder

How to insert a long T-shaped Card : Using the auto card feeder

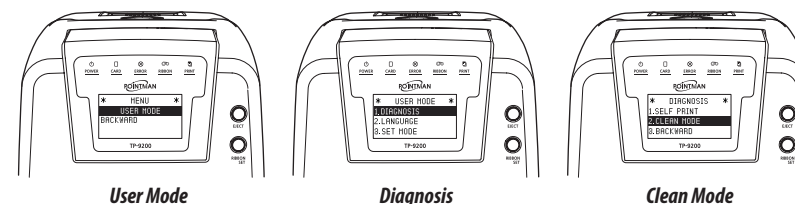


Please insert a 1/3 of long T-shaped Card into printer before operating cleaning

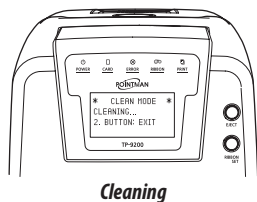
Caution : No single card feeding slot

1) Standalone Mode (No PC connection)

- 1 Turn off the printer, remove the cards and ribbon inside the printer and shut the printer lid.
- 2 With TP-9100/9200, insert a CR-80 cleaning card into a single card feeding slot or a long T-shaped card into the card feeder. For TP-9000 card printer, insert each the cleaning card into the front feeding slot.
- 3 Turn on the printer. After initializing, "Push **EJECT** and **RIBBON SET** button together" at the same time until the LCD displays "USER MODE"
- 4 Go to "Self-Print menu: **USER MODE** -> 1.DIAGNOSIS -> 2.CLEAN MODE"



- 5 Push Ribbon Set button till the cleaning is started.
- 6 The CR-80 card (short card) will move backwards and forwards inside the printer 10 times and then ejected. If you use a long T-shaped card, the printer will automatically operate for 10 sec and then stop.



Cleaning

- 7 Push the eject button and Ribbon Set button together when cleaning completed. LCD display would be backward.



Cleaning Completed

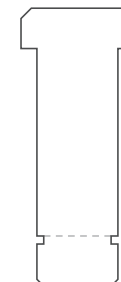
- 8 Leave the printer for 2-3minutes, until the alcohol cleaner evaporates.

2) Using driver menu (PC connection required)

- 1 Turn off the power and remove the cards and ribbon, shut the printer lid. Turn on the power.
- 2 Go to the "Driver -> Printing preferences -> Control tab -> Direct printer control -> Click self-Cleaning"
- 3 When front LED lights flashes, insert a CR-80 cleaning card into a single card feeding slot or a long T-shaped card into the card feeder. For TP-9000 card printer, insert each the cleaning card into the front feeding slot.

- 4 The CR-80 card (short card) will move backwards and forwards inside the printer 10 times and then ejected. If you use a long T-shaped card, the printer will automatically operate for 10 sec and then stop the operation.

- 5 Leave for 2-3 minutes after card is ejected to allow alcohol to evaporate.



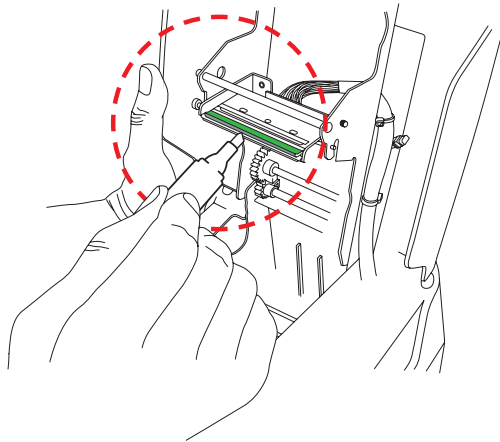
Caution:

If you are using TP-9000 card printer, it is necessary to cut the long T-shape card where indicated on the diagram before inserting it into the printer.

7.3 Thermal Print Head Cleaning Pen and Alcohol Swab

You can remove ink, dirt and contaminations buildup on the thermal printhead and sensors with a cleaning pen and a alcohol swab.

- 1 Turn off the printer and open top cover.
- 2 Use a thermal printhead pen or an alcohol swab on thermal printhead and sensors. (Press the tube of alcohol swab to force the alcohol to impregnate the foam head)
- 3 Make sure the alcohol has evaporated before turning on the power, the thermal print head may be damaged if you used when wet.



Caution

Ensure that the head of the swab is pointed away from your face. Use alcohol impregnated foam head to clean the TPH. Clean only the part below the two marked lines. Do not touch the head with your fingers.



Caution

You should recap of the cleaning pen for the reuse. Cleaning Pen is included only in the advanced cleaning kit. You can purchase a thermal printhead pen only from your reseller or the manufacturer, POINTMAN.

7.4 Washing the Blue Cleaning Roller

The blue cleaning roller will remove dirt and contamination on cards. Wash the roller with every new ribbon or every load of new cards. (The blue cleaning roller is the basic accessory of your printer package.)

- 1 Remove a blue cleaning roller from the printer.
- 2 Wash the cleaning roller under running water.
- 3 When dry, place the blue cleaning roller in the printer.

Cleaning the printer regularly will improve printing and extend lifetime.

8 Troubleshooting

8.1 In case front LED keeps on flashing or always on all the time.

Description of Error code

a) Fatal Error

Code	Code Name	Description	Proper measures
10	TPH OPEN	- TPH Module Open in process of printing	- Check the status of TPH Module Open or Change TPH Open Checking Sensor.
11	TPH UP/Down Fail	- Fail in TPH Up or Down	- Check TPH Up / Down Module
12	Path Jam	- Card Jam on the Path	- Check the status of the Path or Jam on the path
13	TPH Temp Error	- Disorder in TPH temperature	- Check the temperature of working condition. Operating temp.: 0°C ~ 70°C
14	Ribbon Encoder Error	- Ribbon Broken or Ribbon End or Encoder Error	- Check the status of Ribbon and Ribbon Encoder
15	Media Error	- Error in Media	- Check the status of card (media) and Path Sensor
16	EEPROM Fail	- Error in EEPROM Read/Write	- Reboot or Change EEPROM.
17	IC Contact Module Error	- Error in the location of IC Contact Module	
50	Card Flipper Timer Out	- Error in Card Flipper Communication	- Power off -> Remove Cards (media) -> Reboot
51	Card Flipper Act Timeout	- Error in Card Flipper Communication	- Power off -> Remove Cards (media) -> Reboot
52	Card Flipper Home Position Error	- Error occurred in the Card Flipper Home Position	- Power off -> Remove Cards (media) -> Reboot
53	Card Flipper Turn Up Error	- Error in Card Flipper Turn Up	- Power off -> Remove Cards (media) -> Reboot
54	Card Flipper Card Input Time out	- Time out during entering the card into Card Flipper	- Power off -> Remove Cards (media) -> Reboot
55	Card Flipper Card Input Jam	- Jam occurred at the time of entering the card into Card Flipper	- Power off -> Remove Cards (media) -> Reboot
56	Card Flipper Card Jam	- Card Jam in the Card Flipper	- Power off -> Remove Cards (media) -> Reboot
57	Changer Card Exist	- Abnormal card is detected in the Changer	- Power off -> Remove Cards (media) -> Reboot

b) Warning

Code	Code Name	Description	Proper measures
20	Command Error	- Receiving command out of Format	- Send command corresponding to Format
21	Invalid Parameter	- Receiving parameter out of Format	- Set Parameter corresponding to Format
22	Time Out	- Command Timeout	- Send command corresponding to Format
23	IC Contact Error	- IC Contact is not working	- Check IC Contact Module
24	MS Encode Error	- Error in MS Encoding	- Check MS Feeding
25	MS Read Error	- Failure in reading 3 tracks all in MS all track reading	- Check MS Feeding
26	MS Read STX Error	- STX not found in MS reading	- Check MS Feeding
27	MS Read Parity Error	- Parity Error in MS reading	- Check MS Feeding
28	MS Read ETX Error	- ETX not found in MS reading	- Check MS Feeding
29	MS Read LRCM Error	- Discordant LRCM in MS reading	- Check MS Feeding
30	IC Module Timeout	- Failure in IC Module communication	- Check IFM B/D interface and IFM B/D.
31	RF Module Timeout	- Failure in RF Module communication	- Check RF B/D interface and RF B/D.
32	SAM Module Timeout	- Failure in SAM Module communication	- Check SAM B/D interface and SAM B/D.
33	Card Flipper Module Time out	- Failure in Card Flipper Module communication	- Check Card Flipper B/D interface and Card Flipper B/D.
34	Card Input Timeout	- Card Input Time Out	- Check Hopper. Insert Card within pertinent timing.
35	Near end of ribbon	- Near end of ribbon	- Considering exchanging Ribbon
36	Ribbon End	- Perceiving End Mark of YMCKO Ribbon	- Exchange Ribbon
38	Ribbon Error	- Abnormal Ribbon installed	- Check Ribbon and Install certificated Ribbon.

* If you still have issues after clearing the error, please contact your dealer for assistance.



Caution:
After the issue is resolved, use one of the methods below to resume normal printing.

- 1) Press eject button, then ribbon set button
- 2) Switch the printer off then on, press the ribbon set button.
- 3) Place power switch in OFF position, and ON position.

8.2 Other Issues

<i>Trouble</i>	<i>Solution</i>
Found frequently ribbons cut in the front edge of card when printing	- Check if X-start coordinate value on the printer driver is set correctly. - The recommendation of X-start coordination value is 14 ± 2
Found frequently ribbons cut in the front edge of card when printing	- Check if X-start coordinate value on the printer driver is set correctly. - The recommendation of X-start coordination value is 14 ± 2
Printer not found in Card Designer or application software	- Check that printer driver is correctly installed. - Check that communication cable is properly connected. - Reboot your PC.
Other than power LED, 4 Front LEDs Continuously flash in sequence	- Check with dealer for firmware download. - Download the latest version of firmware for the printer. - Perform install using firmware install program.

9 Ribbons

9.1 Color Ribbons

<i>Color Ribbons</i>	<i>Specifications</i>	<i>TP-9000</i>	<i>TP-9200</i>
YMCKO	200 Prints/Roll	O	O
1/2YMCKO	300 Prints/Roll	O	O
YMCKO-K	167 prints/Roll	O	O

9.2 Monochrome Ribbons

<i>Ribbon Type</i>	<i>Specifications</i>	<i>TP-9000</i>	<i>TP-9200</i>
Blue	1000 Prints/Roll	O	O
Black	1000 Prints/Roll	O	O
Red	1000 Prints/Roll	O	O
Green	1000 Prints/Roll	O	O
White	1000 Prints/Roll	O	O
Metallic Gold	1000 Prints/Roll	O	O
Metallic Silver	1000 Prints/Roll	O	O
KO (black and overlay)	500 Prints/Roll	O	O

POINTMAN Card Printer Specifications

10.1 Main Features

- Color & Monochrome printing
- Single Side or Dual Side printing
- Individual card slot for reprinting
- Easy to exchange ribbon & TPH
- Design software 'Card Designer'

10.2 Specifications

Printer Standard Features

- **Print Technology**
Direct-to-card Dye-sublimation I Resin thermal transfer
- **Print Capabilities**
One or Two Sided, edge-to-edge printing
Full-color and monochrome printing capability
Alphanumeric text, logos and digitized signatures
- **Print Resolution**
300 dpi (11.8 dpm), 16.7 Million Color
- **Print Speed *Under specific condition**
Full-color Printing
Single Side (YMCO) - up to 200 cards/hr.
Single Side (YMCKO) - up to 170 cards/hr.
Dual side (YMCKO-K) - up to 155 cards/hr.
Monochrome up to 550 cards/hr.
- **Card Capacity**
Automatic Feed 100-card input for 0.4mm -1.2mm cards
70-card output standard
Manual Single Feed : 1-card input

Printer Option

- Magnetic Stripe Encoding : ISO7811 (Track 1, 2, 3), Coercivity : HiCo /LoCo
- Smart Card Personalization : ISO, EMV- Contact Landing Type
- RF ID Card : Mifare , ISO 14443 A I B, ISO15693

Printer Specifications

- **Dimensions**
TP-9200 Single : 403(L) × 192 (W) × 202 (H) mm
Dual : 471(L) × 192 (W) × 202 (H) mm
TP-9000 Single : 292(L) × 192 (W) × 196 (H) mm
Dual : 395(L) × 192 (W) × 196 (H) mm
- **Weight**
TP-9200 Single : 5.5kg, Dual : 6.5kg
TP-9000 Single : 4.5kg, Dual : 5.0kg
- **AC Adaptor**
MANUFACTURER : CHANNEL WELL TECHNOLOGY
MODEL : KLP-060M
INPUT : 100-240V ~ 50/60Hz 1.7A / OUTPUT: +24V 2.5A 60W
- **Font** : True Type Fonts via Window Drivers
- **Memory** : 128 MB RAM
- **Interface** : USB2.0 (High-Speed), RS-232 (Only Debugging), Built in 10/100 Ethernet
- **Operating System for Printer Driver**
All 32-bit and 64-bit compatible : Window ®8, Windows® 7, Windows Vista®, XP, Windows 2008 Server, Windows 2003 Server
- **Software** : Card Designer

Regulatory

FCC



FCC IDENTIFIER : XTNTP9200
Name of Grantee : TIT ENG Co.,Ltd.
Equipment Class : Part 15 Low Power Communication Device Transmitter
Notes : ID Card Printer

FCC Statement

CAUTION : Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

EU

This product is CE marked according to the provision of the R&TTE Directive (99/5/EC). Here by T.I.T ENG Co.,Ltd. Declares that this product is in compliance with the essential requirement and other relevant provisions of Directive 1999/5/EC.

CE 0678

RoHS



We hereby guarantee that all products that POINTMAN will deliver directly or through any third party to you, do not contain Pb, Cd, Hg, CR+6, PBB, PBDE to the beat of our knowledge, Thereby our products are in accordance with RoHS2 Directive.

- Directive 2002/95/EC
- Directive 2005/717/EC
- Directive 2005/747/EC
- Directive 2011/65/EU



MEMO

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MEMO

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